

IN THE CLAIMS:

Please AMEND claims 21, 40, and 59, as shown below; and

Please CANCEL claims 1-20, 22-39, 41-58, and 60-63, without prejudice or disclaimer.

1-20 (Cancelled)

21. (Currently Amended) A method of compensating for a radiation pattern in a radio system, the method comprising:

forming a primary radiation pattern by weighting signals of at least two functional antenna branches of a base station;

disconnecting at least one antenna branch;

forming a radiation pattern that compensates for the primary radiation pattern by weighting signals of the functional antenna branches~~The method according to claim 1, further comprising;~~ and

forming the compensating radiation pattern by weighting signals of the functional antenna branches so that at least one main beam of the primary radiation pattern is compensated with one main beam of the compensating radiation pattern and the identification signal of the compensating main beam is the same as the identification signal of the main beam to be compensated for.

22-39 (Cancelled)

40. (Currently Amended) A radio system comprising:

a base station configured to form a radio interface of the radio system;

the base station comprises at least two antenna branches for establishing a radio link to terminals;

each antenna branch comprises at least one antenna element configured to form an antenna array; and

the base station comprises a weighting unit configured to weight signals of the functional antenna branches configured to form a primary radiation pattern,

wherein the base station is configured to disconnect at least one antenna branch;

wherein the weighting unit is configured to weight signals of the functional antenna branches to form a radiation pattern that compensates for the primary radiation pattern~~The radio system according to claim 25, and~~

wherein the weighting unit is configured to weight signals of the functional antenna branches so that at least one main beam of the primary radiation pattern is compensated with one main beam of the compensating radiation pattern and the identification signal of each compensating main beam is the same as the identification signal of the main beam to be compensated for.

41-58 (Cancelled)

59. (Currently Amended) A base station of a radio system, comprising:
at least two antenna branches for establishing a radio link to terminals, each
antenna branch comprising at least one antenna element for forming an antenna array;
and
a weighting unit configured to weight signals of the functional antenna branches to
form a primary radiation pattern,
wherein the base station is configured to disconnect at least one antenna branch,
wherein the weighting unit is configured to weight signals of the functional
antenna branches to form a radiation pattern that compensates for the primary radiation
pattern~~The base station according to claim 44, and~~

wherein the weighting unit is configured to weight signals of the functional antenna branches so that at least one main beam of the primary radiation pattern is compensated with one main beam of the compensating radiation pattern and the identification signal of each compensating main beam is the same as the identification signal of the main beam to be compensated for.

60-63 (Cancelled)